

FIG. 1A

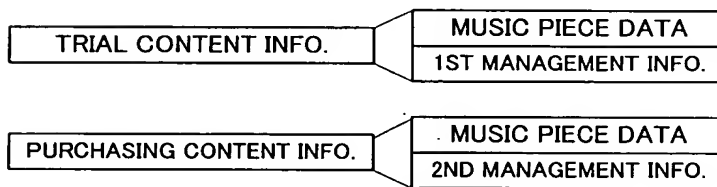


FIG. 1B

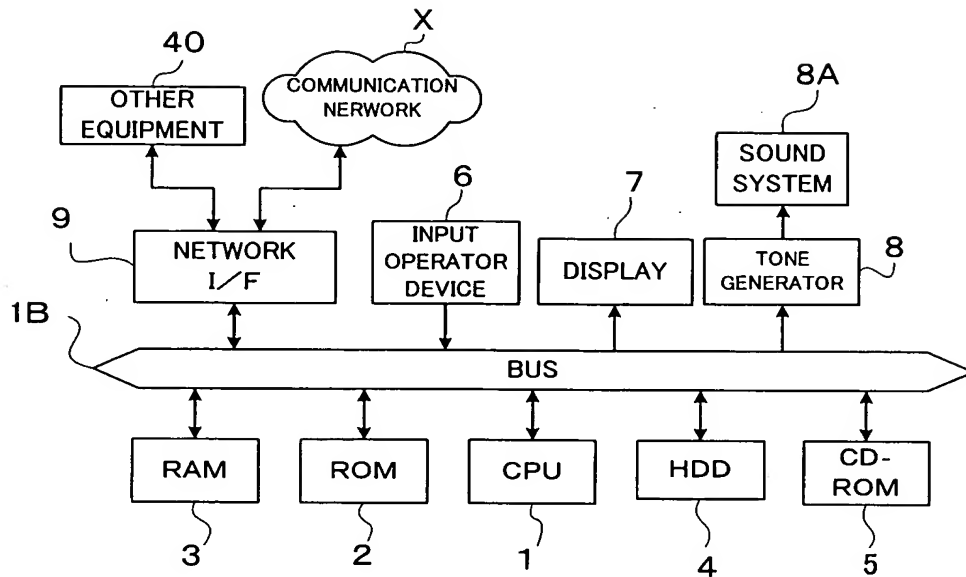


FIG. 2

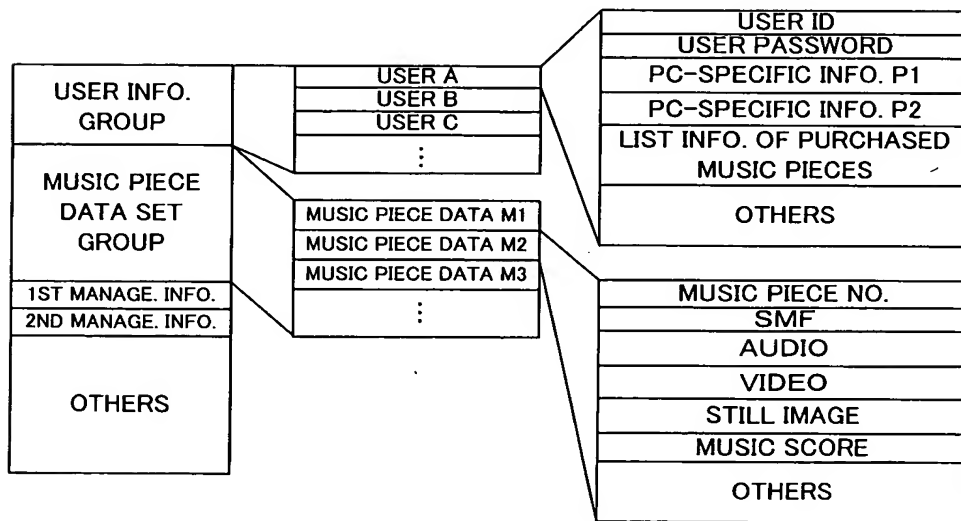


FIG. 3

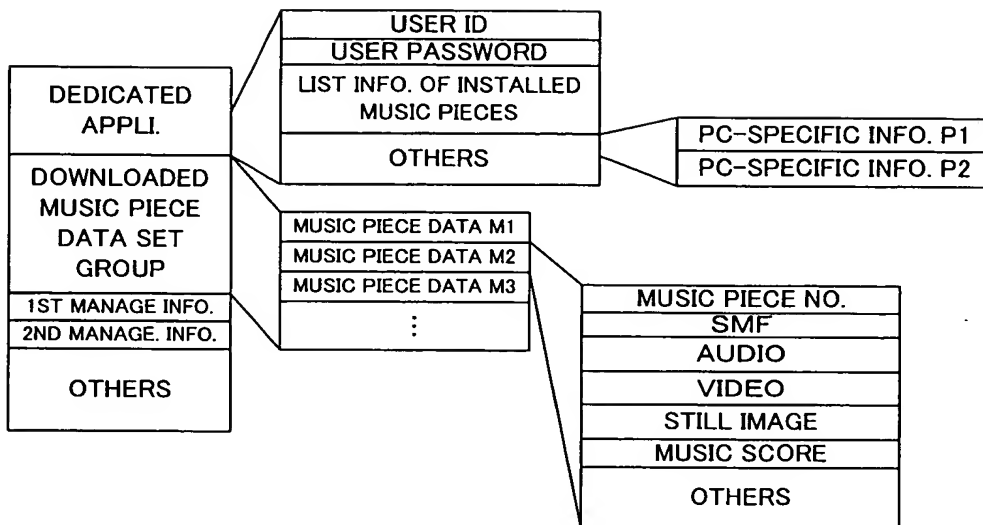


FIG. 4

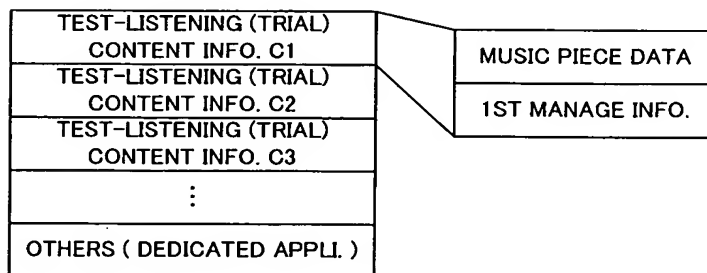


FIG. 5

CLIENT APPARATUS

INSTALLATION OF TRIAL MUSIC
PIECE INFO. FROM CD-ROM
• BOOT UP DEDICATED APPLI. & SET
CD-ROM
• LIST INFO. DISPLAY, & USER
SELECTION
• RECORD IN HDD

FIG. 6A

CLIENT APPARATUS

TRIAL MUSIC PIECE INFO.
DOWNLOAD
① ACCESS SERVER (USER ID,
PASSWORD, etc.)
• DISPLAY LIST INFO.
③ SELECT DESIRED MUSIC PIECE, &
TRANSMIT SELECTED MUSIC
PIECE INFO.
• RECEIVE MUSIC PIECE INFO., &
RECORD IT IN HDD

SERVER APPARATUS

SUPPLY OF MUSIC PIECE INFO.
② TRANSMIT LIST INFO.
④ READ OUT USER DESIRED
MUSIC PIECE INFO. FROM
HDD, & TRANSMIT IT IN FROM
ENCRYPTED WITH 1ST. KEY

①, ③

②, ④

FIG. 6B

CLIENT APPARATUS

PURCHASE OF MUSIC INFO.
• PURCHASE OF TRIAL MUSIC PIECE
INFO. STORED IN HDD ? → YES
① ACCESS (ID, PASSWORD)
② TRANSMIT INFO. SPECIFIC TO
USER APPARATUS
③ SELECT MUSIC PIECE TO BE
PURCHASED, & TRANSMIT THE
SELECTION INFO.
• RECEIVE 2ND. MANAGE. INFO,
REPLACE 1ST MANAGE. INFO. WITH
THE 2ND. INFO., & STORE THE 2ND
INFO. IN ENCRYPTED FORM

SERVER APPARATUS

SALE OF MUSIC PIECE INFO.
④ READ OUT 2ND. MANAGE.
INFORMATION CORRE. TO
RECEIVED MUSIC PIECE NUMBER,
ENCRYPT THE MANAGE. INFO.
WITH 2ND. ENCRYPTION KEY, &
TRANSMIT THE ENCRYPTED
MANAGE. INFO.
• BILLING PROCESS IN PARALLEL
TO ABOVE PROCESS
• ADD TO PURCHASED MUSIC
PIECE INFO.

①, ②, ③

④

FIG. 6C

CLIENT APPARATUS

PURCHASE OF MUSIC INFO.
• PURCHASE OF TRIAL MUSIC PIECE
INFO. STORED IN HDD ? → NO
① ACCESS (ID, PASSWORD)
② TRANSMIT INFO. SPECIFIC TO
USER APPARATUS
④ SELECT MUSIC PIECE TO BE
PURCHASED FROM DISPLAYED
LIST & TRANSMIT SELECTION
INFO.
• RECEIVE MUSIC PIECE DATA &
2ND. MANAGE. INFO., & STORE
MUSIC PIECE INFO. INTO HDD IN
ENCRYPTED FORM

SERVER APPARATUS

SALE OF MUSIC PIECE INFO.
③ TRANSMIT LIST INFO.
⑤ READ OUT MUSIC PIECE DATA &
2ND. MANAGE. INFO. CORRE. TO
RECEIVED MUSIC PIECE NUMBER,
ENCRYPT THE DATA & INFO.
WITH 1ST. & 2ND. ENCRYPTION
KEY BASED ON SPECIFIC INFO.
RECEIVED AT ②, & TRANSMIT
THEN IN ENCRYPTED FORM
• BILLING PROCESS IN PARALLEL
TO ABOVE PROCESS
• ADD TO PURCHASED MUSIC PIECE
INFO.

①, ②, ④

③, ⑤

FIG. 6D

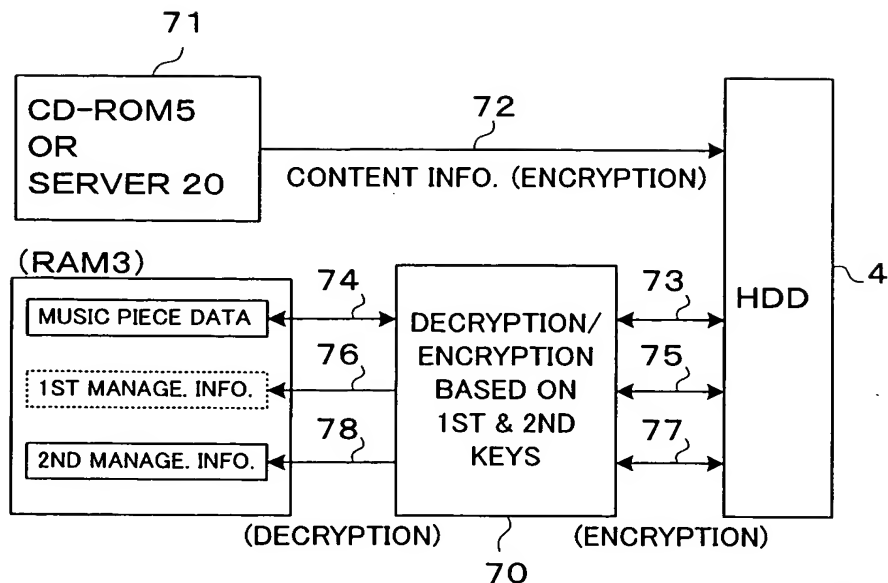


FIG. 7

USE OF MUSIC PIECE DATA BASED ON DEDICATED APPLI.

- ① AUTO. PERFORMANCE (MIDI DATA)
- ② AUDIO REPRODUCTION (AUDIO DATA)
- ③ STILL & ANIMATED IMAGE DISPLAY (VIDEO DATA & STILL IMAGE DATA)
- ④ MUSIC SCORE DISPLAY (MIDI DATA + MUSIC-SCORE-DISPLAY ASSISTING DATA)
- ⑤ KARAOKE (MIDI DATA + LYRICS + IMAGE DATA)
- ⑥ LESSON FUNCTION

⋮

FIG. 8